Listing of Claims:

Please cancel claims 1-10 without prejudice and insert therefore new claims 11-34 as follows:

11. (New) A mixture for preparing a disintegrative casting core for high pressure casting, the mixture comprising:

a) 70-95% by weight of a fusible, water-soluble salt or salts; and

b) 5-30% by weight of chemically non-reactive, fine hard particles, said fine hard particles being selected from the group consisting of powders, fibers, and whiskers of metal ceramics and mixtures thereof; and

wherein the mixture has a melting point in the range from 280 to 520°C and a heat conductive coefficient (κ) in the range from $9.8x10^{-2}$ to $1.2x10^{1}$ W/m·°C, and having a high heat latent heat for melting; and wherein said fusible, water-soluble salt or salts is selected from the group consisting of CuCl, $PbCl_2$, a mixture of NaCl (82% by weight) and CuCl (18% by weight), a mixture of KNO_3 (92% by weight), and KCl (8% by weight), a mixture of KCl (54% by weight) and LiCl (46% by weight), a mixture of $MgCl_2$ (54% by weight) and NaCl (46% by weight), a mixture of $CaCl_2$ (53% by weight) and $BaCl_2$ (47% by weight) and a mixture of NaCl (54% by weight) and $CaCl_2$ (46% by weight)

12. (New) The mixture of claim 11, wherein the fusible, water-soluble salt or salts is a mixture of NaCl (82% by weight) and CuCl (18% by weight).

13. (New) The mixture of claim 11, wherein the fusible, water-soluble salt or salts is a mixture of KNO_3 (92% by weight) and KCl (8% by weight).

14. (New) The mixture of claim 11, wherein the fusible, water-soluble salt or salts is a mixture of KCl (54% by weight) and LiCl (46% by weight),

15. (New) The mixture of claim 11, wherein the fusible, water-soluble salt or salts is a mixture of $CaCl_2$ (83% by weight) and $BaCl_2$ (47% by weight).

16. (New) The mixture of claim 11, wherein the fusible, water-soluble salt or salts is a mixture of NaCl (54% by weight) and $CaCl_2$ (46% by weight).

17. (New) The mixture of claim 11, wherein the fusible, water-soluble salt is CuCl.

18. (New) The mixture of claim 11, wherein the fusible, water-soluble salt is $PbCl_2$.

19. (New) The mixture of claim 11, wherein the fusible, water-soluble salt or salts has a particle size of about 40 to 100 μm.

20. (New) The mixture of claim 11, wherein the chemically non-reactive, fine hard particles are alumina (Al_2O_3) particles which are about 40-100 μm in diameter.

21. (New) The mixture of claim 11, wherein the chemically non-reactive, fine hard particles are silicon carbide (SiC) particles which are about 0.5 – 1 μm in diameter, and about 100 – 400 μm in length.

22. (New) A disintegrative core for high pressure casting comprising:

a) 70-95% by weight of a fusible, water-soluble salt or salts; and

b) 5-30% by weight of a chemically non-reactive, fine hard particles, said fine hard particles being selected from the group consisting of powders, fibers, whiskers of metal ceramics and mixtures thereof; and

wherein the mixture has a melting point in the range from 280 to 520°C and a heat conductive coefficient (κ) in the range from $9.8x10^{-2}$ to $1.2x10^{1}$ W/m·°C, and having a high heat latent heat for melting, and wherein said fusible, water-soluble salt or salts is selected from the group consisting of CuCl, $PbCl_2$, a mixture of NaCl (82% by weight) and CuCl (18% by weight), a mixture of KNO_3 (92% by weight), and KCl (8% by weight), a mixture of KCl (54% by weight) and LiCl (46% by weight), a mixture of $MgCl_2$ (54% by weight) and NaCl (46% by weight), a mixture of $CaCl_2$ (53% by weight) and $BaCl_2$ (47% by weight) and a mixture of NaCl (54% by weight) and $CaCl_2$ (46% by weight).

23. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt or salts is a mixture of NaCl (82% by weight) and CuCl (18% by weight).

24. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt or salts is a mixture of KNO_3 (92% by weight) and KCl (8% by weight).

25. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt or salts is a mixture of KCl (54% by weight) and LiCl (46% by weight),

26. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt or salts is a mixture of $CaCl_2$ (83% by weight) and $BaCl_2$ (47% by weight).

27. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt or salts is a mixture of NaCl (54% by weight) and $CaCl_2$ (46% by weight).

28. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt is CuCl.

29. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt is $PbCl_2$.

30. (New) The disintegrative core of claim 22, wherein the fusible, water-soluble salt or salts has a particle size of about 40 to 100 μm.

31. (New) The disintegrative core of claim 22, wherein said chemically non-reactive, fine hard particles are alumina (Al_2O_3) particles which are about 40-100 μm in diameter.

32. (New) The disintegrative core of claim 22, wherein said chemically non-reactive, fine hard particles are silicon carbide (SiC) particles which are about 0.5 – 1 μm in diameter, and about 100 – 400 μm in length.

33. (New) A method for preparing a disintegrative core for high pressure casting comprising the steps of:

a) providing a mixture comprising 70-95% by weight of a fusible, water-soluble salt or salts; and 5-30% by weight of chemically non-reactive, fine hard particles, said fine hard particles being selected from the group consisting of powders, fibers, and whiskers of metal ceramics and mixtures thereof; and wherein the mixture has a melting point in the range from 280 to 520°C and a heat conductive coefficient (κ) in the range from $9.8x10^{-2}$ to $1.2x10^{1}$ W/m·°C, and having a

high heat latent heat for melting, and wherein said fusible, water-soluble salt or salts is selected from the group consisting of CuCl, $PbCl_2$, a mixture of NaCl (82% by weight) and CuCl (18% by weight), a mixture of KNO_3 (92% by weight), and KCl (8% by weight), a mixture of KCl (54% by weight) and LiCl (46% by weight), a mixture of $MgCl_2$ (54% by weight) and NaCl (46% by weight), a mixture of $CaCl_2$ (53% by weight) and $BaCl_2$ (47% by weight) and a mixture of NaCl (54% by weight) and $CaCl_2$ (46% by weight);

b) melting the mixture at the temperature higher by 30-80°C than that of the melting point thereof:

c) casting the molten mixture into a mold made of graphite which is preheated to half of the melting point of the mixture;

d) cooling the mold and the core contained therein; and

e) removing the cooled core from the mold.

34. (New) A method for preparing a disintegrative core high pressure casting comprising the steps of:

a) providing a mixture comprising 70-95% by weight of a fusible, water-soluble salt or salts; and 5-30% by weight of a chemically con-reactive, fine hard particles, said fine hard particles being selected from the group consisting of powders, fibers, and whiskers of metal ceramics and mixtures thereof; and wherein the mixture has a melting point in the range from 280 to 520°C and a heat conductive coefficient (κ) in the range from $9.8x10^{-2}$ to $1.2x10^{1}$ W/m·°C, and having a high heat latent heat for melting, and wherein said fusible, water-soluble salt(s) is selected from the group consisting of CuCl, $PbCl_2$, a mixture of NaCl (82% by weight) and CuCl (18% by weight), a mixture of KNO_3 (92% by weight), and KCl (8% by weight), a mixture of KCl (54% by weight) and LiCl (46% by weight), a mixture of $MgCl_2$ (54% by weight) and NaCl (46% by weight), a mixture of $CaCl_2$ (53% by weight) and $BaCl_2$ (47% by weight) and a mixture of NaCl (54% by weight) and $CaCl_2$ (46% by weight);

b) grinding the mixture into a powder with a particle size of about 40 - 100μm;

c) introducing the powder into the mold;

d) pressuring the powder in the mold under a pressure of about 80 – 100 Mpa; and

e) removing the cooled core form the mold.